COMMODORE

DISK DRIVES-STARTING OUT



DATEL ELECTROPICS



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Driving Ambition Baying extrus for your disk drive	34	Civil War Classic war gaming from SSG
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* Sonic FX Put SID to work with this powerful sound de-	16 igner	* 28 Line Screen Extra Lines from your C128 column display	I	
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* Data Loader DATA crity rade may	29	Listings All the gen on how to type in our programs		

Ocean has released the computer version of Stallouch Rambo IIII.

Touchline: Ocean Sufream, 6 Centrel

Levy Razed

Steepestion of top budget software

H H New Online Service

Commodoco PC users among creaters who are considering out comme, may be intensted to there is a new UK based on-line is in operation.

Called the Direct Connection, it is solving plans only service white cases for PC users. The software was to not not hey server has been developed in-bound, and is extremely user witness opinions on their model by visibility witness opinions used as means contributed to their model by visibility witness opinions used has means contributed to their model, and default. If I have been serviced to the property of t

Bbi. However, with conferencing a water, the commands to read, se easeth and send dress are far as comprehensive. ... Other features include a daily to bulletin (US origin), and an evera fax service (text only). To get a be

idea of what's available, you can on so the Direct Connection wit demo account. Simply dial 03 3965 (delst), and enter demo at prompt.

The Direct Connection MAIN MENU I Container Assistance

4 Oversight FAX Service 5 News and Magazines 6 Information Exchanges 7 System Services

A mendance figures for list Superment Persual Computer Stow have just been published and, yet again, they have broken all provious records. According to an independent survey, there were 99,339 visions during the four days of the Stown. Of them, 71,551 worth beatings.

and professional variors and a fur 18,495 cause from the trade section. The dates for the Perist Competer Show 1959 have also been set as September 27 to Octl, and the sense will again be E Maria Maria

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recent release criminals.

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or the herrific dangeon and curve before the cyte of viewing millions. It is not the cyte of viewing millions. The curves are inhabited by manderees incremances who system as mance such as Firobail, Dynamo Bezzawa and Soberes. The lains is or await the wing of Sober womaing array of swopone and noisye, deepler the or thinks for blood from the andisence.

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Database Publications, the com-

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CRM's Business Machines Following on from one tone

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SUPPRIVATION OFFINITION, Land 200 blocks in just weaklined programs, Vernatile - Bocksps, Basic, Moulton Nicolator, Basic States, Basic Basic States, Basic Basic States, Basic B

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BATTLE ELECTRONICS LTTLE

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FOR THE BENDUNGS STATES AND THE BENDU

Times of Lore



and magic of a role-playing game, yet will be play and rejoyed by the masses of accade game playe. There is the latest attempt by those adventure it. Origins who created the Union series of games (see Chick this issue) and is also the company's first casest used game.

of Albarech. The High King, drained and wary in to hide in the Eden notion to recognize, leaving the ininthe control of lins stemic Duriet, who is wast and on to shap the many quantities for power. The make it is soon, exce begin invading from the north. You play a liprorag adverturer, and dearly our rich by solicing from the better daring an illimitated operating sequence. You can be supported to the property of the property of the proting of the property of the property of the proting of the property of the proting of

We shall some dentity in an inter in the treas of Des Des Party, who we shall you to find the caugast Some Some ... and to see of the three realignal inters and by some ... and to see of the three realignal inters and by with regard, substants, and see, who had the takes . This with regard, substants, and see, who had the takes of the craps deep in the world. Should you enception and, many where he is well is short crossible land. Before craps deep in the world. Should you enception and, many where he is well is short crossible and makes any other his is well in the crossible and makes any other his is well in the crossible and the craps deep in the world. Should you enception that makes a seed of the contribution of the conmental you of great seed in the contribution. The makes a seed of the contribution of the contribution of the contribution of the consite of the contribution of the con-tribution of the con-the con-tribution of the con-the con-tribution of the con-the con-tribution of the conobjects, cust a spell from a scroll, drink a potion, load a seved game or pusse the game to offer an object to another character.

Despite the fact that you can de all these thereps, you don't have so type in a sizule word as contribing is invasive.

Dougles the fact that you can de all these things, you don't have to you in a night own can everything it physicis contributed. When you talk no a pance character—smaller as inskroper in flow have more to any—you can inquire about namean is general as specific objects, people about namean is general as specific objects, people of the property of the second of the

covic containing more of these heyevers, say be known and share or all spin of a camenous who may know more. We have a real spin of a camenous who may know more than the least to fedure.

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It is post to decide which induits to the himself provided and the state of the state o

so it's just as well that you can save the gener the yet in an inch, as there are between 200-006 beam exploled to go. I have now invested the leaves and general or have a side of remove to these and general or have a side of remove to the general or to a caption, so easily the only just executed the out-face. I'm brooked intrasty. Time will all here many arriade gas are reticed by the general but it's star so uppeal to a star of the general or the property of the great of the arriver like enough the great of the star of the great of the great



Can Datel turn your study into a studio?

Sound

things, particularly when delying into





Investments?



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Hit that perfect best to gain affair constrology, but to force effect, there's Dark's Cience and Service, there's Dark's Cience and Service, there's Dark's Cience and Service, Done again was a combination of odd of or top least size of the service of the servic

brary of different kin can be control. Prevamably Dute wil sport is obtained and the control of the control of

both products could be marke the Hg-Hop Construction 5 charge for the idea fellant. All well and good so far but where a few snags coop up, imperiately, the sound quality too hot, although some sound better than others, so it could be Com-Diane than and the could be the could b



is through my studio amp. The mely is around this would be so buy some for the most of male gate which cuts the sou to when the signal drops below a cert in level. A cheap feet polal model is cost between \$20 and \$50.

Programming Cons-Dram code.

Programming Com-Drum coalbe simpler. You have the option of a time or step-time recording. I found the way to some patterns was to record in a time and cornect errors and add fiddly in step-time. which could actually be quite a see Indication because over the most be of door-down patterns will have least a base of creat, some one his has the same best which means that ten fill that goes over those particbeats will be lost.

by partners, you can assuage the patter is no songs. It's possible to amange standard pep song using five partner is not corter. There can be seed core to corter. There can be seed core is negative is required in the corter. There can be seed core is negative is required to the corter. There is no corter. There can be seen corter to corte and the corter to the cor

to hate using standards which go asptaling away. With Come Driven is tempo is not measured in RPM (But Per Minuta) but in some anodeser act of numbers. The cognisation of 1 BPM seems to fis somewhere in tearly 200s.

To me, this is also a nice soy b

will no doubt lose in appeal if the a starts to take masic more serious Having, said that, the combination the sampler hardware/software as the Com-Dram software (which Do will sell separately) may well do a of good introducing newcomers to

Products: Digital Sound Se Cons Dram, Supplier: David Di ics List, Fenton Indiatrics Gerom Road, Fenton, Se Trees, Tel. (2002) 744707, Mr.

Road, Fernon, Stoke or W. 19782) 744707. Mackin I. Prices: Sampler L49.9. Ion L75.99. Ion Software (for Sample

SONICTX

Sound on the 64 is far from easy.

Said many first-time users can
find it a diameting talk just to
get the simplest search out of the
architect. The program will hopefully

moin of effort and, when you have of the effort, will autoentically ser it into a short Rasis progress. IEAR SOUND: Will allow you are your security. Will allow you are your security.

DESIGN SOUND:
SET FREQ. Sets Inquency for
und.
SET ADSR: Sens Attack, Docsy,
stain and Release.
SET ADSR: Sens Attack, Docsy,
stain and Release.
REPEAT: Switchen repeat

SET WAVE: See waseless of between operations and SET PULSE: See pake width size wave celly.)

Incorporating sounds

FRINTER DETAILS: WEI print into footnet.

To incorporate a sound in SAVE FRAME: Will save frame own program yes can use out app.

LOAD FRAME: Will load frame condit there are.

Getting it in

"Cle
Entire in the program is in Basic. Please refer to our Listings pages before typing it out."

to our Listings pages before typing it in.

IMPORTANT: After running the program always use option four of the main more first.

Cl Swand)
Type in the federating faving
60000 rens "block deines"
60010 fr1z=9020x=1:priox5(147)
60020 PRINTCHRS(15)F-27-

6040 FORE 631, PEPORES32, PORRESSUPPRESSUPPRESSURES 6040 Ft 00 :True 3+00 4 6050 FF T THEN PRINTCH PT: (47) SIND

60000 GOTG60020
Now type RUN 60000(RETURN) To program will now delete itself, but to its very allow, so leave it everalghe to something.

Follow these instructions.

* Save the sound programs.

* Load the main program to

* Enter the following: POKES! PEEK(61:POKES).PEE A-PEEE(45)-PEEK(40)*256-H-INTI] 256: L-A-356*H

* Now load the sounds.

* Enter the following:
POKE 43, PEEK(251):POKE
PEEK(252)

The programs are now meng ready to be saved to tape or do To use a sound in this sta

Games **Update**



Teachtlac TWE Game Set And Merch



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##ORIGIN





tunning unkty of returnings.

Emlyn Hughes







Quite simply, it leaves other word processors lost for words.

Arniga includes many feat not found in other word processors. Nasopaper style column be displayed on screen, IX

word UK phonetic dictions word-count, background printing and automatic re matting increase efficienc Line drawing and rules

search/replace and 5-fun maths are invaluable asse by using the Amigai pulldown menus nearly a WordPerfect's features are available at the click of a function keys there is a colour coded template in make life easy.

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Data Loader

Re D R Murr



It is possible to delite blocks out data with the "Fay. The takes and data with the "Fay. The takes and dise, is once the data block is removed the nest of the data entered is moved down less the space that has been consume inter. The "Fay is used to perfore this function. This fraction will cause all data after the point of insertice to be mosed up by one block. It is of corner possible to make a mistake when deleting data. You will be plassed to solve that the "Et by will be plassed to solve that the "Et by will

to pussed to more after the year of the way of the first way of the first and insert it hack it is respective floor in memory.

Once you have finished typing it was no have a break, you will of course must to a sare your week. Premising the '5' lay will activate this function. If the first way is not the course of the course was to the course of the course from the course of th

When you want to leave the program simply meer 'Q' for quit.

the Bind Address +1 in Jow bytz.)

byte Somat, then the date belock, frinkly on byte Mindle the Binds and Mode. DATA to ADABER* below the Binds and Mode. DATA LOADER* DATA LOADER* To consent the DATA LOADER* To consent the DATA LOADER* byte Mindle Binds and StavE consented.

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ry be loaded within the prograthe comman (ADFILENAME' (See 128) is ADFILENAME' X,1 (For 64 h continued.

That's id! As you see see programs above will be epoparams above will be indispensible used for the programs consider of basic of the continue of the programmers who don't want to get a large countrie of basic of the continue of the continu

materies where it take that is a peles into memory one by occ.

Note that in other magazines i programs listed ownersemen are brandocinal whatch is no proble however for checkwas us the each said liste sustainess of their line. All the control of the checkwas in the case where the checkwas is the out of the checkwas to the checkwas the checkwas where this is the too addition of all the data susuanus. Solly, the unament have expectable in the case of the checkwas where this is the too addition of all the data susuanus. Solly, the unament have expectable in the checkwas the checkwas where this is the too addition of all the data susuanus.

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MODO62 Storumy 1989

First Steps By Norman Doyle

RETURN Without GOSLIR

There's nothing more irritating when a program is chapping

Ingrid's Back

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(a) Amplif. Anni is a size, grade game, both in steey; yeerein. Creating, is it Level's vanous basencom and misses been greened by the process. The treath is, there's not he gat really expend about. It can encounte back is early days of passes seen in Chappens Advance, no good process in the process of the process of

Title Deprits Soci. Supplies Level 5, FO Soc 15, We de Super-Marc. Avon. SSSA SUR. Tel: 0894-814450, F. LLASS (Buth forenzo).

Driving Ambition

Buying a disk drive is the first step, but where can it a

By Kerry Fowler

A is an American Commoder cover about a distinctive and control about a distinctive and the control of their work his own why year by talking about. They may have one one but fee actually as there is the USA, this driven role suprema Ballian to languarance of wheap driven year hour, manufactures were the committee temper medium and todard was rife. Although monetter it account for the support, of stong account for the support, of stong

common now and you probably know secretic with owns one eres if you haven't got one yourself, where it got haven't got one yourself, which is not small Sexture oven when companed to the price tag on data drives for the drive in an intelligent derive, containing a worn 6500 goossess The advantage of this in that the drive is an intelligent derive, containing the worn 6500 goosses The advantage of this in that the drive is an intelligent derived containing the second of the drive of

compares and their 4840 drives. These were sides a specified in even drive and heasted in a uniting that would occupy as a sea about four four first f

This is not the only hangover free he old days. Examine the User Manual and you'll find an entry fe he DUPLICATE command white says that this is not for single of This does not mean that it will if you buy a second drive becanousies a sleve number of one or

Similarly, the copy command wi copy a file under a different namthe same disk. On the 4040, thnot the case.

Some of the imported feature not so immaing. The well pubsare-und-replace bug which mak continued a dodgy one to use his

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differently formatted disks, such a CP in or NS-DOS, for the CI23 and the mashinest devised for the LS41 cm and years and the mashinest devised for the LS41 cm and years and the LS42 cm and the LS42

The Plans and CD compaters
their over drive which man set
revelationary. Prior to the appears
of the 1537, Commodore had unt
at fee serial communications fee to
a drives and pristers. This meetes if
all information is not down as in
botten. The 1551 meet part
of t

The 1551 didn't catch on an Commadore reverted to serial drive

for the C12

for the C128, but this was not on or to to their caperiments. Receipty, if 1981 has appeared which combines in expectry of a 5.5 inch disk with fazz dok access. It's an excellent crive to fazzed to be the preserve of those witorp large databases or who wish i standarduse their new (6-bit machin with their entary old-8-bit. Add to those drives the two indies





these drives are faster than the 154 If there is any difference at all, it is minimal and falled to show up in the tents we performed assemble month ago.

These are four main carrisings for the Old and only one for the Old.

in its marraid state.

The Expert, Procee Praws, Fleak
Carrisign and Action Righty form the
Calversign and Action Righty form the
Cell lime up call are compatible with
the CEM and 46 month. Action Replay
Professional IV9. Wany 25 and the
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famou hadron possible. Artises Replay. In a sight edge became it is made in a sight edge became it is made in a sight edge became it is made in a sight edge i

carridge wise bands down both on the grounds of speed and facilities. This is especially true for cirric owners because the municior can be used to write and execute programs for wedging into the disk drive's operating system.

Financial Systems Software and Financial Financial Financial Software nations the Way Speed cutrisful for the CLES. This is evaluable for use in the C64 mode or C18 mode. Although it works with a smaller C64 because, despital in go-barre same, who composed to the Final Carridge. The composed for the Final Carridge, the composed to the Final Carridge, and could be composed to the Final Carridge and could be composed to the Final Carridge.

érive interrogation function sin the Action Replay tagether sin impressive range of toulki commands. Porpoise Built? Atheugh there were those has last leaden sivalable at one

out of the stales and Dophile D. from Everham Micros has a clear fit. At twice the price of a cartridge, ymay be wendering why I meets Dolphia at all. It is no faster the Warp. 25 and its meetice rudimentary when compared Way 25 and Rocker, Isatzad, it is parallel leading to increase its up This nears that it will lead ending programs, and the majority commercial programs at lights speeds. The one disadvantage Closely, that is tiles on a other observe

drive modification is fairly says but the replacement ROM. It compains can be archaned. The a job for the rank assures is most ROMs are accustly addess the circuit board. When I install Dolphin DOS, I recent dessithe original ROM, fidding addering in a clay socket and that it was point saining. The obvious, over small slip of the soli iron and you can more good!

your FA
The CL28 modification only works
in Cb4 mode with a 1541 but, with
callier models, intallation is simple
because the ROM clap is already
bound in a socker Simply low out
the eld ROM and bring in the new.
One big advantage of Delphin in
that it can be modified to heady to
dark from one modified to heady to
disk drives, opening up the possibility
of important dath backops. At appro-

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Care Ware

get clogged up with calde from the recording surface. the problem is that those poodus often carry instructions for use wi PGs. To use them with a Commode computer, place the disk in the drinal close the flag. Next, essents a lifermating command and the driwill white round happily, cleaning it is post.

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The small but beautify

The small but beautify

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corrupt cops, and the inflamous N/ Vork traffic. Now you're beginning comprehend the scope of your as exempts, specials, and readass the you must stop binn as all costs. The area is levels — that are loaded expansively energy you've completed to premise one—which will take you down into the source, time Kuntaku upiann factors, through an office bloand onto a fland confrontation we the red Neumann.

and auto a final conferentiation with the rel Shoppin. If Leer Neigh had see facilit, is not the fact that you could take us less in you filled over each series in the game, which always down the solit considerably. Leer Neigh II Judies this residency by always your defining one to occore from the bearing you grain if you have grown and you to your again if you have grown to you they have been a series of the proper them, and it should not have been a series of the proper them. If you you shall not have been a series of the proper them and it would not have been a series of the proper them. If you have have a fact that the proper them and it is not you shall not have been a series of the proper them and the proper them.



to perfect the kungfu armed as unarmed jognich moon, to that yo can defeat your feet without incums too much damage, and concentrate is solving the games puzzles that willian you to Kuntakil and the end of challenging mission. T.B. Touchiber: Take Law Noja II. Supplier: Symen J (Modingrowi), Make Branc. More Peren Hance, Rending, ARMS, More



Figure 1.

Initialisa

20 FRINT 15."M-W": CHR\$ (100)

A Flow of Ideas

When you're all excited about starting your rerogram, pre-planning may seem dull, but it co save time in the long-run.

Plewcharting had always been namberna to me. I'M read so many holier-than-thou strides about how Bowelmarts are the only way to produce with-drawtstand programs, that it had no been proposed a postgrammer, but charts left me cold — only when I analysed my methods did I readine that I'M been ching did I readine that I'M been ching

out reaking it.

What happens when you sit down to write a program! First of all you decide what the program is going to do. Then, if you've anything like me, it he next thought is whether there's a program that can be mediful some program that can be mediful some

where in the suffusion collection, or if not, are their may recritise that can be betrayed piecental? You may not relation it, but already you've supposed onto the slipposy dispoto. Showcharding. Busically, which happening in that you've breaking down the job into sensiter parts. Take the archetypol Space devader

analyse what it does.

Immediately you consider the program, certain elements keep our you. Let's work out how a size

decimal to hexadecimal converter could be written. In making this decision, we've started planning because the aim of the project has always defined the start and me points of the project.

benadecimal europe

stinus, we must now define rly what the end result will

high and less byte values of a s hase to be calculated. So we nake this contine convert a s to hox, and print out the convenien plus the high and le in bex and decimal.

decimal input decima

split high and low byte

convert to hex values

print out

CIR COMMODORS (Alexan

M TEMP : BLOOSUR HOURS .



Extending Basic

routines

By Burghard-Henry Lehmann

Commodore 64). Butin in about an inservent myse using given an interferent myse using given a more servent and a more commonant which other and a more commonant in the commodore and a more commonant in the commodore and a more commonant in the commodore and a more commodore and a more commonant in the commodore and a more commodore and a more

in machine code.

The purpose of this neries. The purpose of this neries is not purposed to the purpose of the

many ROM-restricts of the Co-

commands, first you have to intering the normal flow of Basic at one polin the ROM. This is called "drivin a wedge". A wedge is a restine th interrupts the normal Dow of a BOS reasine, and makes the computer jump to a contain written by you instead of the normal reasine written in ROM. But how can you drive a wedge if you can't write to ROM? The developers of the CSA, who wanted their reachine to be in Breible as

their machine to be in flexible in possible, thought of this. The most important routines beek in the Basic-ROM and the Kernal-ROM are account via ventors, and then section are in RAM, where they eas be changed.

A ventor points to the start address.
of a certain nutries. Entend of jumping savights on the deplining of the couring.

to the resume trees to the confirmation of the

It want by waiting for the retent key to the present Dees the line as the same in easiend stook had a called the "again ballet". Nov., of the face had the "again ballet". Nov., of the face is the same as a facet Basic recentage of the same as a facet Basic recentage in the Basic section. Each the Basic ballet ballet works. Then the computer covery time tips govern the following in locations 140-88, and this inclinate game are the victoria of 5000. If we propose the top of the propose is because a 55000. If a large in location 140-88, and this inclinate game are the victor of 5000. If a large in location 140-88, and this inclinate game are the victor of 5000. If a large in location 140-88, and this inclinate game are the victoria of 5000. If a large in location 140-88, and this inclinate game are the proposed to the same of the proposed in the same and the proposed in the same and the same are the same and the same are the same and the same are the same

commands, there is a better point. We intercept Busic just before a Busic

Executing a Basic command

25 The restise at \$A754 starts with 464 Basic line to be excessed being sto

have already been tokensined. This seems that if the first character the componer gets from the lingus buffer to august that SSS decimal 1981, the componer knows that it has to be a Resist command. Otherwise lift part of a parameter, that is a number, a variable or a string.

The resultin starts by getting that character from the large Medie and

evaluating 3. For the it sees a very operated resides which is written into the zero gage at location 537 whencere the competer is started up. This is called "CHARGET" and weeks like the: First the polister which points at the address in the input buffer, where the next character is, in somemoried

the next character is, is increment by ere. Then the character is fitth from that position and part force accumulator. Finally the routine de a number of ions which set the ere flag and the curvy-diag according to t nature of the character. If if is a late carry is cleared, and if the number zero, which is always used as an emarker by the computer, the cross-line is set.

CHARGET is a very clever pic

at the routine is used it modifies inthis is why it is in RAM and said e. ROM as most other continue of a operating system, Figure 1 shows incomplete of efficient machine code pogramming, and because of this war studying the coupley.

First the location pointer in 3's

Basic is at the same time part



PROBLEM - SECRETARY TO SECRETARIA

ratorose estados

onal Print quality on a Plus/4? Paul Eves takes a look at YER's latest utility.

Print Enhancer

he there does not the Aviaga, CLIS and the CAE, it is a refunding design to see that sections has not beginned the industry of the control of

and sobscripting. The program may be used in one of three mays, with the [3-1] islands soond procusses; the Scripts cartridge or through a Blade program. Once the program is Issueded and running, there are from foots of \$6. characters resident is memory. Thus from a real in four separate basits, which can be writtened in and out art will find apoct of the fixeshility of the pregnant what is may option makes this regions stand out. It manos that you are as longer married to just one operator. Thus, your documents or a more product. Thus, your documents or extens that on a more professional appeal, A selection of the special codes or extens below. Each code in second to be a command character, exceeded by a command character, exceeded by a command character, exceeded by a command character over 3-1, Stripp plus and bade. The seminand character are CHER222. Course CHER2227 and CHER222.

nomenad characters are CHES(22) facage CHES(27) and CHES(2) expectively.

) - Selects character set bank 0 - Selects character set bank 1 - Selects tharacter set bank 2 5 - Selects tharacter set bank 3 5 - Selects character set bank 3

4 - Turns on off underlining 5 - Turns on off justification 6 - Louds named character set (Wicards may be used) 7 - Set single line spacing 8 - Sets one and a half line spacing 9 - Sets double line spacing

Therefore the statement: PRI # 1,CHRS(27) "Gradic"

ank). Johough to get the full.

of to be learnt. Thankfully thou IR have made these as few subtle. Therefore I feet that once; we used the pregnan a couple nes, you will know all you no thout having to constantly look e manual.

Finally, we come to the fo

Finally, we came to the foot deeigner List the rest of the program, the deeigner is straightforward to us, with only a few key to remember. Duce you have designed year even you may then noisy nor own foots with those supplied.

Escape to get into

bar for selecting a character. The Flays I through 6.
All in all I was impressed program. Good 14 mility proghard to find these days. Also counts of examples of Pr.

28 Line Screen

refine bior ber to carry out a

How it weeks

C128 PROGRAM

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